



X8 User's Manual for Face Recognition Product X8



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X8/Instructions for Face Recognition Product X8



The limitation of traditional access control has been broken through by the methods such as password opening, card-brush opening, fingerprint identification, etc to verify the authority of personnel. Through the integration of GIWEI face recognition SDK, it is easier to perform the intelligent transformation of the access control system, and the face recognition can quickly and accurately perform personnel identification and access control. From collecting face photos, comparing faces, and obtaining results, it is fully automated and requires no manual intervention during the operation.

This system is suitable for residential areas, airports, wharf, entrances and exits of stations, entrances to examination hall, banks,



access gates, office buildings, schools, public services and management projects that require face access control.

- Product features

Dynamic dual-camera anti-counterfeiting, completely solve the deception of various photos on various carriers;

- RGB

Night infrared and RGB dual fill light;

Support optional external access control card reader, ID card reader, temperature measurement module;

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Support relay, RS232 serial port, Wiegand 26 output, output content supports configuration;

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Use dynamic face detection and tracking recognition algorithms based on video streams;

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The recognition speed is fast, (a) face tracking and detection takes about 20ms, (b) face feature extraction takes about 200ms, and (c) live detection face comparison takes 0.6ms (1000 people database, multiple recognition average value), 0.8ms (10,000 people database, multiple recognition average value);

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Support live photo saving during face recognition or stranger detection;

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Support public network and local area network deployment methods;

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Support the content configuration by screen display;

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Support the configuration of recognition distance.

Hardware specification table of product

Face recognition integrated terminal			
/Product model		X8	
Screen	/Size	8 inch, full view angles, 170°IPS LCD screen	
	/Resolution	800*1280	
Camera	/Type	RGB	
	/Resolution	2 million pixels	1.3 million pixels
	/Aperture	F2.8	F2.8
		3.2mm	3.2mm



	Focal distance		
	White balance	Auto	Auto
	Wide dynamic	Support	Support
Core parameters	CPU	4, 1.8GHz 4-core 1.8GHz	
	Storage capacity	2G, 8G RAM 2G, Capacity 8G	
Accessories	Fill light	LED Infrared, LED fill light, green and red indicator	
	Network module	(2.4G Wi-Fi)、(USB) Support wire, wireless (2.4G Wi-Fi), wireless (USB external connection)	
Interface	USB/interface	USB2.0 1 USB 2.0 interface 1	
	Serial communication interface	RS232, 3.81mm2P RS232 serial port, and 3.81mm terminal block 2P	
	Relay output	3.81mm terminal block 3P	
	Wiegand interface	3.81mm terminal block 3P, support Wiegand 26 and 34	
	Remote control interface	3.81mm terminal block 2P	
	Exit switch	3.81mm terminal block 2P	
	Door magnetic interface	3.81mm2P 3.81mm terminal block 2P	
	Wire network interface	RJ45 gigabit network 1	
Function	Face detection	Support detection and tracking of 3 people at the same time	
	1:N facerecognition	Under the condition that the false recognition rate is three ten thousandths, the recognition accuracy rate is 99.7%	
	Stranger detection	Support	



	Recognition distance configuration	Support
	UI interface configuration	Support
	Deployment mode	Support use of public network and local network
General parameters	Protection level	IP54
	Power supply	DC12V (±10%)
	Working temperature	-20°C ~ 60°C
	Working humidity	10% ~ 90 %
	Power consumption	18W MAX
	Installation mode	Wall-mounted, gate bracket installation
	Equipment size	239.2mm*123.2mm*26.4mm
	Weight	≈1050g

FCC Warning:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

RF exposure warning:

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and transmitter operating conditions for satisfying RFexposure compliance.